

SEQUENCE LISTING

<110> Greenspan, Ralph J.
Edelman, Gerald M.

<120> Method For Functional Mapping of An
Alzheimer's Disease Gene Network and For Identifying
Therapeutic Agents for the Treatment of Alzheimer's Disease

<130> P-NI 4577

<150> US 09/490,243

<151> 2000-01-24

<160> 80

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 509

<212> DNA

<213> Drosophila melanogaster

<400> 1

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tcttctcacc cgacagctgc tttcatctcg tatggtacct tcttctttat ttatgtacat 420
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<212> DNA

<213> Drosophila melanogaster

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atttaagcgc aaaagttcaa ttaataaaaa ttagaatttt aataactaaca taatttggac 180
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aatcaattt ccataacaac cgct 264
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<211> 367

<212> DNA

<213> Drosophila melanogaster

<400> 3
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atttgatttg ttactaatta ttcatatata gagttgtata tatatgcgta tgtatatata 180
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aaatttagca atttatttgt tatctttttc taagtttatt tttttccttt ttcggttcaca 300
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<210> 4

<211> 483

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc_feature

<222> (1)...(483)

<223> n = A,T,C or G

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ccgaatccag naanatatcc ccgtcaanaa aaaaaacata taaaatatga aatggtacat 180
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aaaacaggat acaagccact tatcctaaca aacgccaggc tacactgaga aaataagcat 360
cgngagttgg tatggatagc agaaattacc catattcggtg gactaaagggt ggtgtactga 420
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ata 483

<210> 5

<211> 395

<212> DNA

<213> *Drosophila melanogaster*

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aaaaaaaaac atataaaata tgaatgtaca taaaaaatatg tccatccaac caaccaacca 180
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<210> 6

<211> 188

<212> DNA

<213> *Drosophila melanogaster*

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ttagaacg 188

<210> 7

<211> 186

<212> DNA

<213> Drosophila melanogaster

<400> 7

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cgaaagtgat aatttgtgtt attttttgtg tatgggattt tgataaatgc cttatgagtt 180
tagaac 186
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<210> 8

<211> 297

<212> DNA

<213> Drosophila melanogaster

<400> 8

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gtgtaaccga gttggcggag cgacgcagtg cgatcatacc agcttccaca cagacggctt 180
tgactgggc gccgttgaag tcatccgtgg atcgggacaa ttcttcgaaa ttcacatcat 240
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<210> 9

<211> 710

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc_feature

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<223> n = A,T,C or G

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caactcagat cgaaactgaa aaattttaca tttccatggt ttattttaat gtgaagttaa 180
actgcaaatt tctagtctaa gcgtagtagt taagattagc cttcttcttc gcctgcactt 240
ccatgatggc gtccatgaat ctctgctgta accgaattgg cgganccgacg cagtgcgac 300
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atcctcgaaa tcacatcatg ctaactttca tttacgcaat gaattgcata atacggccgg 420
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atccccattn atcttaatcc ggcgcnttnn ctctnaggaa ccgnttccat atcctgncnn 600
cctccttggt tacaaagccc antccccatn ccnaaggaat gaccttcgct accgggtggt 660
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<210> 10

<211> 479

<212> DNA

<213> Drosophila melanogaster

<400> 10

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aactcagatc gaaactgaaa aattttacat ttccatgggt tattttaatg tgaagttaaa 180
ctgcaaattt ctagtctaag cgtagtaggt aagattagcc ttcttcttcg cctgcacttc 240
catgatggcg tccatgaagt ctctgtgcgt aaccgaattg gcggagcgac gcagtgcgat 300
cataccagct tccacacaga cggctttgca ctgggcgcgc ttgaagtcac ccgtggatcg 360
ggacaattcc tcgaaattca catcattgct aacgttcatt ttacgcgagt gaatctgcat 420
aatacgggca cgggcttcct cggtgggatg tgggaactcg atcttacgat ccagacgac 479
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<210> 11

<211> 355

<212> DNA

<213> *Drosophila melanogaster*

<400> 11

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aaaccatac cgaccggcag gtggtcttcc agaggagacg ataacgacgt agcgtgttcg 120
aaaggacag tggagtcagt ggtcggcaaa ggtggtccca ggacgagcgt ttgcctcgcc 180
cgaggacgat acaccctaac ccataacatc ataatcccag ccgggcccgc tcgtcgtccg 240
tgtcaaggag caagcaggac cacggaggca aggcgttgca ggagaaatgc cgcaggagca 300
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<210> 12

<211> 171

<212> DNA

<213> *Drosophila melanogaster*

<400> 12

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aatgtaaca cgtctagaca ttgacataat ccctgttcaa tatcacgcaa ttttaaacca 120
tccaacggca gcataaattt cttctccttc tcacctcgtt ccttacacac a 171
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<210> 13

<211> 170

<212> DNA

<213> *Drosophila melanogaster*

<400> 13

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aatgtaacac gtctagacat tgacataatc cctgttcaat atcacgcaat tttaaacat 120
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<210> 14

<211> 162

<212> DNA

<213> *Drosophila melanogaster*

<400> 14

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aatgtaacac gtctagacat tgacataaat ccctgttcaa tatcacgcaa ttttaaacca 120
tccaacggca gcataaattt cttctccttc tcacctcgtc cc 162
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<210> 15
<211> 249
<212> DNA
<213> *Drosophila melanogaster*

<400> 15
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tttdtttttca gataaaagga maaagaagga aaaattttaa gaaaggatat ggaaaaatga 180
gagaagaaat tatagagaaa ataatgcatg attgagaatg aagtaagaat tgagaggaat 240
waaattaag 249

<210> 16
<211> 709
<212> DNA
<213> *Drosophila melanogaster*

<220>
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<223> n = A,T,C or G

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gcaaacgttt tcgcagcgcc agttgcgacg ccaaactttt tcgttcataa acggcggtcca 240
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tcnccnancn tctttctttn ctnttcctc cggtccgtaa ccatgggcct tgcataatct 600
cngccancna ntatnggagc cttggcccca aagntcccaa tgatctcnaa ngactcncga 660
ncccccgcc ntaataggat cangctgnaa nacataatcn catcacngg 709

<210> 17
<211> 468
<212> DNA
<213> *Drosophila melanogaster*

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aaattctcaa gaatctgacg cgccgtaatg tcgcttggtg cgaaatttaa aaacgagtcg 300
cttaggtacg aattcacgaa gggcgaaattc tgcagatata catcacactg gcggcgctc 360
gagcatgcat ctagagggcc caattcgccc tatagttagt cgtattacaa ttcactggcc 420
gtcgttttac aacgtcgtga ctgggaaaac cctggcggtta cccaactt 468

<210> 18

<211> 416
<212> DNA
<213> *Drosophila melanogaster*

<400> 18
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agacacacac acgcaacaca cacagacaca ttcaacttaa agtgcgtaac ataaagtaaa 180
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ggtttcgttt tccagcgatt acctggagat caccatggca accagtcaca ctcatTTTaca 300
cttggaatgc atgggagttc ttctatcaac taacaaatcc tatttcatat acaacacgtt 360
aactatgttt gcttggttag ttcgctttcc tgtcgcttgt tataagtaca caatat 416

<210> 19
<211> 286
<212> DNA
<213> *Drosophila melanogaster*

<400> 19
tcaaagcagg tgcaacgttg tacatacata tatagaaaga acaaaatgag agagatcaat 60
ctgtaacttg aatgtgggta agtaaagagg tgcatatata tttttttaca cgcgtatata 120
gtttgcgttt ttcgctttcc acacaagata cgtacttcgt agccccctt cccctttcca 180
aatactgtat cacaaagatc ataactcaaa atgctattgc tttgacttac atcttatttc 240
ggtggtgtca actgcgccac catacgaaaa tacataaatt atagcg 286

<210> 20
<211> 706
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1) ... (706)
<223> n = A,T,C or G

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gtttgtggct tgccctttgc gaattacaat atggaaacgg atacagaaca gaaaatagtt 180
taacaataat attgctggaa taaacacatc caaggttaata ctacagacagc actcgtcatc 240
gccctcatcc angatattgg cctgctggcg cacatcgatg ccctgctgca caactccgcc 300
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tccatggtaa caaagcccat ccccaatncc cangangacc ctcgctaccg gggttggtcct 660
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<210> 21
<211> 459
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(459)
<223> n = A,T,C or G

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gattcggggg atgatcacat gctcaatggc gttttggta 459

<210> 22
<211> 483
<212> DNA
<213> Drosophila melanogaster

<400> 22
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aaacattgta gacgaagcat gtggaattaa agccaaacac gataattgtg ccgagactct 120
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caa 483

<210> 23
<211> 514
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)...(514)
<223> n = A,T,C or G

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<210> 24
<211> 430
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(430)
<223> n = A,T,C or G

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tggctcggcc cgtgcaggag cttaattaat tccccaaaa atatttataa ctttggggccc 120
aatacggctg ctgttgctgc tgctgactac tgaacatat tttaatttat atttcttgga 180
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agaaaacaaa actgactcgt actgaagctg aaactgaaag aacttttagt cctattccrg 360
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aaataactgg 430

<210> 25
<211> 213
<212> DNA
<213> *Drosophila melanogaster*

<400> 25
aacatttttag attgaaacac attccaaaag tctaagactc tagcttcaca acggtcgtct 60
tctcggacac gtacagbbcg tcaaggaact tacggatatc cttgttcttg acgstcgtgg 120
actgctggat gagggcggca gatccggaga cagactcaat atcgttccgt amscgtaagg 180
tyggccctct ggavagttag gtcacccacc gcg 213

<210> 26
<211> 365
<212> DNA
<213> *Drosophila melanogaster*

<400> 26
aacatttttag attgaaacac attccaaaag tctaagactc tagcttcaca acggtcgtct 60
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actgctggat gagggcggca gatccggaga cagactcaat atcgtttccc tccacgataa 180
gttcgtcctt ctgggcagtg gagttgacca cggtgacgcc aggagccatc tccacacgac 240
ggatgtactt ctcacccaag aagttacgga tctcaatgac cgtgttggtc tcggaggtga 300
cacagttgat ggggaaatgg gcgtacacag cacgcatctt gtactggatc cgaattcaca 360
aagg 365

<210> 27
<211> 212
<212> DNA
<213> *Drosophila melanogaster*

<400> 27
acatttttaga ttgaaacaca ttccaaaagt ctaagactct agcttcacaa cggtcgtctt 60
ctcggacacg tacagbbcg caaggaactt acggatatcc ttgttcttga cgstcgtgga 120

ctgctggatg agggcggcag atccggagac agactcaata tcgttccgta mscgtaaggt 180
yggccctctg gavagtgagg tcacccaccg cg 212

<210> 28
<211> 691
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)...(691)
<223> n = A,T,C or G

<400> 28
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atacactatt ttctgcttat tggaaatagtc tacacacttt tgctacatag gtacaattaa 120
gtttgtggct tgccctttgc gaattacaat atggaaacgg atacagaaca gaaaatagtt 180
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gccctcatcc angatattgg cctgctggcg cacatcgatg ccctgctgca caactccgcc 300
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catgcccatt gctttngtat tcccctccct tggcactnct aacccccggg taaacgcatt 480
cctgtgttca ttcaatccaa ggnaatccgc attctcncct nggctcact ctctaaggcc 540
atccnaata tctntaatcc ggcgctttta nctatggaac ngntacatac ctgacatcct 600
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<210> 29
<211> 677
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)...(677)
<223> n = A,T,C or G

<400> 29
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aaacattgta nacnaagcat gtggaattaa agccaaacac nattttntg ccnatactct 120
tgccagaga ttgtcaaggc cgtgcatctt acgcgagtaa atcaaggaaa atgtgagcan 180
gttaaagaaa atttctacct actaaaaaca atattaatgc atctccaaat attagtttct 240
tcctacagga tggtagatgg ttttggaat gtatctttt atgtacctgc tctttggtgt 300
canatecnaa tncgaaggc caattctgca aatatccaca cctggcgggc cgctcgaaca 360
tcttctaaan ggccaatccn ccnattatga atcctatana atcctggcc gtcttttaca 420
ctctganggg aaaccnggc ttnccactaa ccctgcacct ccttccnct gnttatacaa 480
aagcncatc cctccacatt gccctaagn atgacctct cgcctanccg gggtntggtc 540
cntactctt nctaccccc tcttctctt cnttcggtc cnaactaagg cctggcattt 600
tgccccaat aagngnctt gccnaagtc ccaatgtctc nangactccg aacccncccc 660
ctaaaggacn cctgaaa 677

<210> 30
<211> 141

<212> DNA

<213> Drosophila melanogaster

<400> 30

```
atgatataat ggattggttaa tcaattggca tcgaaattaa tttagatat aaacaccact 60
taacgccgcc tcaacctaata tactgtctgc atatgcaata gaaaacgtat ataaattaat 120
taaataaaaa aaaaggaaag t                                     141
```

<210> 31

<211> 322

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc_feature

<222> (1)...(322)

<223> n = A,T,C or G

<400> 31

```
atttcgcgac aggcttcggc acgccagtat ataaccctaaa acacacnaac ntcaggggct 60
ggancgcgtc actgccgtgc tctccagcc ggcacagtca ttccccgcc ccacaccaan 120
caaaaccggc cgcttggtga natgacatag gcgcgaccan ccaactgacc cggctgacca 180
gacttgacc gtgcgccatc aactggaatc ttggccacaa gcacagcttt agtttgcccc 240
gctatccnc acacaaacc agantggggg tctatggaag accacaagtn gttgcgttg 300
aactgctaaa natttnnact gt                                     322
```

<210> 32

<211> 308

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc_feature

<222> (1)...(308)

<223> n = A,T,C or G

<400> 32

```
acgcatacaa tatatgatta tacatacata tatatatatta caatgataaa gaatgtaagg 60
cccaagccaa gcaaacacat atgtaacgtg tatttgaacc acgtacttat tatttacatg 120
tttacatata cgaacatcca aagcaaagg atatacacgt ataggactca acatttaca 180
attcaatatt cttatatgtg gaaagcanag cgttacgatt atctcccanc taactggaag 240
cgattgaatg tctatacatn atttgtaatg ccaaataaaa taaaatatat cacgttatat 300
taaacagt                                     308
```

<210> 33

<211> 201

<212> DNA

<213> Drosophila melanogaster

<400> 33

```
acgcatacaa tatatgatta tacatacata tatatatatta caatgataaa gaatgtaagg 60
cccaagccaa gcaaacacat atgtaacgtg tatttgaacc acgtacttat atatttacat 120
gtttacatat acgaacatcc aaagcaaagg tatatacacg tataggactc aacatttaca 180
```

aattcaatat tcttatatgt g

201

<210> 34

<211> 187

<212> DNA

<213> Drosophila melanogaster

<400> 34

```
acgcatacaa tatatgatta tacatacata tatatatatta caatgataaa gaatgtaagg 60
cccaagccaa gcaaacacat atgtaacgcg tatttgaacc acgtacttat atattttacat 120
gtttacatat acgaacatcc aaagcaaagg tatatacacg tataggactc aacatttaca 180
aattcat 187
```

<210> 35

<211> 687

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc_feature

<222> (1) ... (687)

<223> n = A,T,C or G

<400> 35

```
agaattacca cgcgaaacaca attctgtttt attgttttta atacatatatt aatctttgcg 60
anaagagcta gtgtaggtag tctggaattt ttcatatatt taacgatatc cattggtaat 120
gattacatag ttggattaga actaataactt gtagcagtta atggaatggt caccaccgct 180
ctggatcatc gttgctggtc agctggcaag gcatcatcac gcacttttcc atgcggacgc 240
natecttgca cttgtggctc aatcggtggt cattaagggt cgggttcggt ggcgaaacggc 300
attatcgcca cagtttgagg tgcattggtgt ccaagcggaa cactcccaat tancnacct 360
cgtcctgagg tccggttgcn gactcttacc acatccttcc tctccaatcc ccgtccctga 420
ttgattacnn tcatccaccc ctggtaaacac nattccaact tccagttgct tggaaatgct 480
gcncctact ccgaatacga cncctccctc ccatgaaccn ccccagagct tgcacgtgga 540
cncatcatc ccaagnaatc tgcattctcc cgcggcncac tcttaagcca tccccaatat 600
cttaatccgc ccttaatcta tgaacgntt ccatacctgn cancctccct ggtaaaaanc 660
ccatctccct tncnangan gaccctc 687
```

<210> 36

<211> 311

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc_feature

<222> (1) ... (311)

<223> n = A,T,C or G

<400> 36

```
tcccatcaat tcgttactca tcaattgaaa tttcagattt ggtaatgcta aagggtatc 60
atgattgcag ttctatgaag tggatcaaag cgatttcggg tcaaagattg cgggtcgctg 120
ctagaaagat tgatctctag tgcttctcca gtgcttgctt agttcggcga gggcataacc 180
ttgatgcgct ccaaggcttg tttctccang gtctcgcggt gcttgggata ggcgatctgg 240
ataagttcgt acatcctctg gcgcacattc ttgccgaaca gcgaagcgat tccatgctcc 300
```

gtgacgactt a

311

<210> 37

<211> 670

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 37

```
cccatcaatt cgttactcat caattgaaat ttcagatttg gtaatgctaa agggctatca 60
tgattgcagt tctatgaagt ggatcaaagc gatttcgggt caaanattgc gggtcgctgc 120
tagtaaaata gtgatctcta gtgcttcttc agtgcttgct tagttcggcg agggcataac 180
cttgatgcgc tcgaagcttg tttctccagg gtctcgcggg gcttgggacg ggcgatctgg 240
ataagttcgt acatcctctg gngcacattc ttgccgaaca cgaagcgatt ccntgctccg 300
tgacnactta ntggacttng gcacgcgaan ttgacaaccc agcgcctgcc ttcacgttng 360
gaacaatctt gctctccctt tgttggtggg caatgcatgg cnataattgc acacccatcc 420
atcnaaacct ccncgtcccc naatnaattc acctntcccc naaccgggat taaanccgga 480
acatcatcta cncctgtcnt ccattccaat ccaagggaat ctnnattcac cngcgggcnc 540
caacatctcn aaggccatcc caatatnttt anatccggct cttaactcta tggaacnntc 600
tncataacct gantccttcc ctgtttcaag ccncatcccc ncttcccaag ataccctcgc 660
taacgggtng                                     670
```

<210> 38

<211> 192

<212> DNA

<213> Drosophila melanogaster

<400> 38

```
accatttaat tattaaatat gatttattta tattaatatg tagtcaaaaa ctccgtgtta 60
gctttaattt acctacccca ctttggatct aaataaatat gttaaattgt gattcaagcg 120
tgataattta tttggaacag cattgcgaaa attgrgtagt ycataatgtt ttttcttcct 180
ggkcactgag ca                                     192
```

<210> 39

<211> 362

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc_feature

<222> (1)...(362)

<223> n = A,T,C or G

<400> 39

```
gctgaactgg acctgaatat aaacntatac acatctattg caacaangat acacaccttg 60
ctgttaacca cctgcaacat ccaancttct tacatccctg gtgtagttc gacanactct 120
acatttcccc acctctgccg antgctgana gttaantcat gggaacagga natnccnctt 180
cccaaaggg aatattttnt gtnaaataa atactgcctc ttgcngttca acgtananan 240
anaaataccn aattccgaaa ggggccnaan ttnccgggcn canannggcc tgcctcntag 300
```

ggaatcncca nccccctntt atangcctc ttccgctat aaacttgtgc cngaancccc 360
ng 362

<210> 40
<211> 322
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)... (322)
<223> n = A,T,C or G

<400> 40
atttcnccgac aggccttcggc acgccagtat ataaccctaaa acacacaaaac gtcaggggct 60
ggaacgcgtc actgccgtgc tctccagcc ggcacagtca ttccccgccc ccacaccaag 120
caaaaccggc cgcttgtgca gatgacatag gcgcgaccag ccaactgacc cggttgacca 180
nacttgacc gtgcgccatc aactggaatc ttggccacaa gcacagcaat agtttgcccc 240
gctatcccca cacanaaacc cacantgggg gtcnatggaa gaacacaagt gggtgcgtgg 300
aactgctaaa aatataaaac tg 322

<210> 41
<211> 323
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)... (323)
<223> n = A,T,C or G

<400> 41
atttcgcgac aggccttcggc acgccagtat ataaccctana acacacaaaac ntcaggggct 60
ggaacgcgtc actgccgtgc tctccagcc ggcacagtca ttccccgccc ccacaccaag 120
caaaaccggc cgcttgtgca gatgacatag gcgcgaccag ccaactgacc cggttgacca 180
gacttgacc gtgcgccatc aactggaatc ttggccacaa gcacagcaat agtttgcccc 240
gctatcccca cacagaaacc cagantgggg gtctatggaa gacnacaagt gggtgcgtgg 300
aactgctaaa aatataaaac tgt 323

<210> 42
<211> 176
<212> DNA
<213> Drosophila melanogaster

<400> 42
caagtgcggc ggcgacaaga aatccgcttg cggctgctcc aagtgaagctt tcccccaaaa 60
aagatctgga gtagaggcgc tgcattctgt ctccgaactg atttctgtat aactcccaat 120
actaaaacga catgttttct catttacaca ccctgcaata aatgtccaat taaagt 176

<210> 43
<211> 323
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1) ... (323)
<223> n = A,T,C or G

<400> 43
atttcgcgac aggttcggc acgccagtat ataaccctaaa acacacaaac gtcaggggct 60
ggaacgcgtc actgccgtgc tcctccagcc ggacacagtc ttccccgccc ccacaccaag 120
caaaaccggc cgcttggtgca gatgacatag gcgcgaccag ccaactgacc cggtgacca 180
gacttgacc gtgcgccatc aactggaatc ttggccacaa gcacagcaat agtttgcccc 240
gctatcccca cacagaaacc cacantgggg gcctatggaa gaccacaagt ggttgcggtg 300
aactgctaaa aatataaaac tgc 323

<210> 44
<211> 176
<212> DNA
<213> Drosophila melanogaster

<400> 44
caagtgcggc ggcgacaaga aatccgcctg cggtgctcc aagtgagctt tccccaaaa 60
aagatctgga gtagaggcgc tgcattctgt ctccgaactg atttctgtat aactcccaat 120
actaaaacga catgttttct catttacaca cctgcaata aatgtccaat taaagt 176

<210> 45
<211> 323
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1) ... (323)
<223> n = A,T,C or G

<400> 45
atttcgcgac aggttcggc acgccantat atanccctaaa acacacaaac gtcaggggct 60
ggaacgcgtc actgccgtnc tcctccancc ggacnctcn ttccccgccc ccacaccaag 120
canaaccggc cgcttggtgca atgacataag gcgcgaccan ccaactgacc gggtgaccag 180
acttgaccg tgcgccatca actggaatct tggccacaag cacagcanta gtttggtccc 240
ctatccccac acatanaaacc cagattgggg gvvttatngaa naacacaagt ggttgcggtg 300
aactgctaaa natatnaaac tgc 323

<210> 46
<211> 362
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1) ... (362)
<223> n = A,T,C or G

<400> 46

```

gctgaactgg acctgaatat aaacntatac acatctattg caacaangat acacaccttg 60
ctgttaacca cctgcaacat ccaancttct tacatccctg gtgttagttc gacanactct 120
acatttcccc acctctgccg antgctgana gttaantcat gggaacagga natnccnctt 180
ccccaagggg aatatTTTTnt gttnaaataa atactgcctc ttgngttca acgtananan 240
anaaataccn aattccgaaa ggggccnaan ttncgggcn canannggcc tgctctntag 300
ggaatcncca nccccTntt atangccctc ttccgcctat aaacttgtgc cngaancccc 360
ng 362

```

<210> 47

<211> 416

<212> DNA

<213> *Drosophila melanogaster*

<400> 47

```

agtttacatg tactttattc gttttgtata tcccagacag atagagttat ttattgaaca 60
cttcaactgg ctaggctgta ttagggctctg cttgtaactt ttgtgtcagt aaccactcta 120
aaatagtata atgctagtaa ttctacccat caacccattg tatacatact tatattcaaa 180
accctttcac cacattttcta agcctagatt atggataatg cctctaatat gtaacgagtg 240
cttaggtcac cttagccagc cgctggctga tgcatTTctg gctgcgaagg tcgaaccaat 300
ttcccgact gcagtaatgc aaaaccgctt ttcccttcaa gcaaacataa tacttgttat 360
gctgcttgac gtctccaaat cgtgtatcct ctttcacttt ggtgcaatcg ggtacc 416

```

<210> 48

<211> 413

<212> DNA

<213> *Drosophila melanogaster*

<400> 48

```

caaatagttt acatgtactt tattcgTTTT gtatatccca gacagataga gttattttatt 60
gaacacttca actggctagg tcgtattaga gtctgcttgt aacttttTtg tcagtaacca 120
ctctaaaata gtataatgct agtaattcta cccatcaacc cattgtatac atacttatat 180
tcaaaaccct ttcaccacat ttctaagcct agattatgga taatgcctct aatatgtaac 240
gagtgccttag gtcaccttag ccagccgctg gtcaatgcat ttctggctgc gaaggctgaa 300
ccaatttccc ggactgcagt aatgcaaaac cgcttttccc ttcaagcaaa cataatactt 360
gttatgctgc ttgacgtctc caaatcgtgt atcctctttc actttggtgc aat 413

```

<210> 49

<211> 885

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc_feature

<222> (1) ... (885)

<223> n = A,T,C or G

<400> 49

```

rtnstartmn ctmrtnsttt ctamcmmntd skasamdsdy strmrtdaca stanyrmrma 60
chndsnnnng nagatacgcc aagctattta ggtgacacta tagaatactc aagctatgca 120
tcaagcttgg taccgagctc ggatccacta gtaacggccg ccagtgtgct ggaattcgcc 180
cttcgtgaat tcggatctga ctgcaagtgc ggcggcgaca agaaatccgc ctgcggtgc 240
tccaagtgag ctttccccca aaaaagatct ggagtagagg cgctgcatct tgtctccgaa 300
ctgatttctg tataactccc aataactaaa cgacatgttt tctcatttac acaccctgca 360

```

```
ataaatgtcc aattaaagta aaaaaaaaca aaaaaaaaaa accgaattcc gaagggcgaa 420
ttctgcagat atccatcaca ctggggggccg ctcgagcatg catctagaag gcccaattcg 480
ccctatagtg attcgtatta caattcactg gccgtcgttt tacaacgtcg tgactgggaa 540
aacctgggtt tacccaactt aatcgcttg cacacatccc ctttcgccag ctggcntnta 600
caaaaaggcc cncgattgcc ttcccacant gccacctgaa tgggaatgaa ccccccgta 660
cggccttaac cngngtttgt ggttaccac ntacgcaacn tgcaccccta cccncttcc 720
ttttctctt cccnttccgg ttccctcacc tantggggcc taggtcaatt tcttngcca 780
ccaaatntag tangtctttg cccccaaaag ttccctaatt gatcttctaa atganntcnn 840
gaaaccncac cgtntttant aaggatgcat cgcngttaa catcc 885
```

<210> 50

<211> 496

<212> DNA

<213> *Drosophila melanogaster*

<400> 50

```
cttgatccag caatctatctt ttcacaaacg ccaatgtcaa attttcttca gataatgtct 60
ctategctgt aataattcca tcgtaacacg aaggcaatgt gatcagtaga tgagaaattt 120
tatecatctc ttctatcttt gcaccagctg ccaacaattc acttataagt tcgtcaaaaa 180
tatgaaaatg gcttaatagt gacatctcac tcgatagctt cagagaaagc aaacgttttc 240
gcagcgccag ttgcgacgcc aaactttttc gttcataaac ggcgtccaaa ttctcaagaa 300
tctgacgcgc cgtaatgtcg cttgttgcca aatttaaaaa cgagtcgctt aggtacgaat 360
tcacgaagcc gaattctgca gatatccatc aactggcgcg ccgctcgagc atgcatctag 420
agggcccaat tcgccctata gtgagtcgta ttacaattca ctggccgctcg ttttacaacg 480
tcgtgactgg gaaaac 496
```

<210> 51

<211> 936

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc_feature

<222> (1)...(936)

<223> n = A,T,C or G

<400> 51

```
acatcaatgc tagtgettec ttttaccgaa aacctattga atacgctaaa aaattggaat 60
agtcgcaagc ggaagtcggc caaaaaaatc cttaagaatt ttggaaccag ttcttctact 120
tgtcgatcgc āaccaggcgc gtgtcgtcgc cgacctctc cagatccttt ggatcgcggc 180
ggaagcgata agtgcccaca tcctggttgg ccgattccgg caacgtcacc ttgatgccct 240
tgtactcggc tcgaccttec ctgacctccg gcacccgcag ctccatctcg gccttgact 300
cgtcatcggt accaatgtcc acgtcctgga ccgttctttt gcacgggtggg atcctcctcg 360
tcctggttcc agccatcaaa tctcgatggg gacaatgggg ttgcccgcga cgcctacgac 420
ggnaactangt gcgccantag ggcaggatct ccacgggtaa tctccagaaa atcggaattc 480
tctggctggg ttggcagact caaactgcan tcccgcantc cacnaatgtt tgggtcanct 540
ccntttgaaa tgggaggtat ggggccatca aggnagcgaa attcacnaaa nggggnaatt 600
ctgcannata tccatcacac tggngggccg ctccaagcaa tgcactaaa agggcccaa 660
ttctccta atangngagt ccgtattaca aattcaacng ggccgtcggt ttanaangt 720
cggaatggg gaaaaaccn gggngntaan caaacttaat ccnccttggg agcanaatcc 780
cccttttcgc aagangggng tatnannaaa nagggccgca acgantgncc cttcccaana 840
antttccnan cctgaatngn gaatggacnc nccctgtnnn ggggcaatna acccgngggg 900
gttgntggta ncncaangt ntacggctaa anttgc 936
```


<210> 52
 <211> 629
 <212> DNA
 <213> Drosophila melanogaster

<220>
 <221> misc_feature
 <222> (1) ... (629)
 <223> n = A,T,C or G

<400> 52
 gtttgcaaac cttcctatatt aagtaaagtg tttgactctg gctcccaaag cttnccttgg 60
 gaaacgggaa aaattctcta cantgtatat gtgcgcatgc aaactcattt ggtaaattac 120
 acatnaataa atatgtataa caacaactan acatatgttn atggaaaata aaaattttca 180
 gtaacgactn aactcgantg tccgtagcat naaggganna agtcgtcnan tgttattatc 240
 taatttgcag cctgtattgt ccagatacaa tatgtnatng atgcantgta tatctnttgt 300
 gtacatanat atatgtttta ggcgactcct atttntctgc ntgtgcatat cgatcaaattg 360
 cctactttcn tgattgtttt gtgtgtttcc nctaaggaaa anatacatgt gttatatcny 420
 naaaagaatt gtatcgattt aggtttgctt cctcaaactt ccacaaaaaa tcgntntcnt 480
 ntanancna aaaatacgaa aatnnttgtg ccttaaaaaa aaacaatcga ggnaatccca 540
 antcnaatg cggngtcact cngntaccat atgctcnaaa cttccctggt tcaaagccca 600
 tnccacttn cccatganga ccttcgctg 629

<210> 53
 <211> 977
 <212> DNA
 <213> Drosophila melanogaster

<220>
 <221> misc_feature
 <222> (1) ... (977)
 <223> n = A,T,C or G

<400> 53
 cgtttgttgc cggatttgtt ggttggtagg ttgtttgtta gtagagagag agagaaccgg 60
 tacgtataaa aactacgttc ccattgccgg attgttattg gagaattgag cccgccaccc 120
 aagcagccac ccacgtatca cccgtcaca agagcggaaa atggatacag tccgggttcc 180
 tggcggtaga accgtaattt ctgtgatttg ctttttttgt gttaagtaag tatttaataa 240
 gtagattact gangtttgcg gctccgcggg cgattccctt aggcggccac ttcgctangc 300
 ctccgnccca ttctgaacct catcctttgt gctgggectc atcaagcanc gaattcacna 360
 agggcggaatt ctgcagatat ccatcacact ggccggccgt cgagcatgca tccgagaggg 420
 cccaattccg cccctaataa ntgantccct attacaattc actgggccgg tcgtttttta 480
 naaccggtcn ntgactgggg aaaaccctgg gcggttnccc aaacttaatt cnccttgcaa 540
 gcacantcnc ccttttcgcc aagctggng taattanaga aaagnaggcc cgcacccgat 600
 nggcccttcc caacnngttg cgcaggccng aaannggccg anatgganag cgccccggtg 660
 agccggngca attaatccgc ngngggggtg ttggtgnggt taanccgcaa accgtgaccg 720
 gentatacct tgccaagggc ccctanctga ccngntent tttcggtttt cnttncctt 780
 ccttttntcn ggcnaaantt cgnncgggtt ttcnccggtc aaagctenta aatnnggggg 840
 gntccctttt agggnttccn natttnaggg gctttnacgg gnaantccca anccccaaaa 900
 aancttgctt nnnngtgaan gggtnnagct tnntggggca nccccctna taaaggngtt 960
 tnccnctttg nagatgt 977

<210> 54
<211> 875
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(875)
<223> n = A,T,C or G

<400> 54
gcgatcttac aaaataaata acagcaaata gaaagataaa cttacatata agcgcaatat 60
tcaaattgttt agtggcgtct acgaaatgtt tttcaattac tgctgggtgta agacacatag 120
ataataaatg tgatgtgttt tgtgtgtttt tttangtttg gcctaccaga agtgtgctct 180
aaatatatac caatgtgaat cgaaatcgta gctccttgcg ttctcctata tacatgtgca 240
ccgtgagatc catagtccca tcgttttcgg ttttaagttac ccycgggcy yggcagattc 300
gnaatcatat gcacgtataa agatagactg cgtgcacagc tccggccctc ctctctgggaa 360
aacgcatagc cataccgaat tatccgatcc caangcatac atgggtagaa ngatctcggg 420
tccgttcac c aacttcggga natgtcgcn cgntccggtc tccgtttccg cgaacagcct 480
tccggtcagt gtctannnc acgggtatta aggtaccaag tttgcaagat cacatcgatc 540
agcagcgtgg gtaaatngng gcaccagcag tcaaggcang cgaattccac cnaangggcg 600
aaattccggc aagaataatc catcacactg gggggccggc tcgaagcatg caatcctaga 660
aggggccc aaattccggc natattgagg tccatattan aaaagttcaa tgggcccgtcc 720
gntttannaa acgttcntga ntgggaaaaa ncccnggcgt ttacccaact taaatcnccc 780
ttncagna atnccccctt tcagcnaanc tgggcgtaat nnncnaaana ngncccgcac 840
cggntgcccc tttcccaaca atttngcccc agnct 875

<210> 55
<211> 465
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(465)
<223> n = A,T,C or G

<400> 55
ggggtcgtac tcggtgagga aatccaagcg cttatcatgc ttcactttgc agacaatcag 60
tacatcgatt gatgaggaaa aagaagaccc cttgaatggg tcgataatca ttactgtcca 120
actcgattag agctccctcg ttgaggaagg tcttgccctc cagattgcca ttgaagccct 180
ggaccatttc cttgaccgcc cgcggtggcat ggctattctc cagatcctcc gtcgccgtan 240
tgctctccgc ctccaaactc tctgccttca ggtgactgga agtcttgcca tccgtcatgg 300
tggccanaat attgcgctgc tcaatcagaa tgtgcgacag ttgatacatt tccgactcga 360
gatgtgatat ctcttggnc gtctgtataa actccatata gttctttttg catgtttgct 420
tgagcgttgc tgccgtcggt tcggtgtagg cctcgatttc ctttt 465

<210> 56
<211> 238
<212> DNA
<213> *Drosophila melanogaster*

<220>

<221> misc_feature
<222> (1)...(238)
<223> n = A,T,C or G

<400> 56
tgctgctgc tccttttggg actcctgggc ttcttagctg ctcccggcgt cgctcgcca 60
tctcgccaca ctggaccagg aaacggatcg ggatctggag ctgggtccgg aaatccgttc 120
aggtctccaa gctcacagca acgaccactg tactacgacg ctccgattgg gaaaccatcn 180
aagactatgt acgcctgacg tanagaatga aacaanaaag atttgaaacn cctanact 238

<210> 57
<211> 237
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)...(237)
<223> n = A,T,C or G

<400> 57
gctgctgct cctttttggga ctccctgggc ttctanctgc tcccggcgtc gcctcgccat 60
ctcgccacac tggaccagga aacggatcgg gatctggagc tgggtccgga aaatccgttc 120
ngtctccaa gctcacagca cnaccactgt actacgacgc tccgattggg aaaccatcga 180
agactatgta cgctgacgt aaagaatgaa acaataaaga tttgaaacgc ctaaact 237

<210> 58
<211> 238
<212> DNA
<213> Drosophila melanogaster

<400> 58
tgctgctgc tccttttggg actcctgggc ttcttagctg ctcccggcgt cgctcgcca 60
tctcgccaca ctggaccagg aaacggatcg ggatctggag ctgggtccgg aaatccgttc 120
aggtctccaa gctcacagca atgaccactg tactacgacg ctccgattgg gaaaccatcg 180
aagactatgt acgcctgacg taaagaatga aacaataaag atttgaaacg cctaaact 238

<210> 59
<211> 253
<212> DNA
<213> Drosophila melanogaster

<400> 59
attacgtccc tgccctttgt acacaccgcc cgctcgtact accgattgaa ttatttagtg 60
aggtctccgg acgtgatcac tgtgacgcct tgcgtgttac gggtgtttcg caaaagttga 120
ccgaacttga ttatttagag gaagtaaaag tcgtaacaag gtttcgtag gtgaacctgc 180
ggaaggatca ttattgtata atatccttac cgtaataaaa catttgtaat tatacaata 240
aaaacaattt acc 253

<210> 60
<211> 236
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)...(236)
<223> n = A,T,C or G

<400> 60
aacaggcaaa agcgatatca gtaataaaact aaacgcacca attgttttaa taaccaaagc 60
gttaagaaaa aaatcaaaga caaagccacg gcaaaaggcg cagacaacaa gttgtttgct 120
tttagttcgc gttctcctta ttttattttc cttccgttcg attttccacg cacgcgcgctc 180
gcagaaacgt caaattgaaa acatcancag ttgaaagcca actgttgcat tctacc 236

<210> 61
<211> 247
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)...(247)
<223> n = A,T,C or G

<400> 61
ttcaggcatc ttccttctaa ttctggctgt gggtttggca caaatgccgc tgcagggtggc 60
cgcccagggc caaatggac attcgcaggg acagccgcca agaccgcca atggcaatgg 120
aaacggcaac canncagagt ggacaaggac aaagcgggca gaacaactag aactgggata 180
tttctggagg gggacaacac acctcctcgc cactttccca gttacttaaa taaacacttt 240
ccccagc 247

<210> 62
<211> 767
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 62
ctaattgcgc tccatccatt tgttctctgc cggtgattcc cacatcttta atgggtggagt 60
tatagaaatt attttgaata atcaaatacat ctccaattat cttcactatt tcactcaaag 120
acatgggttt tagcgtgctg gtcgtgttgc ttccaattgc gctgacggct ttcgaccatg 180
atccgaattc acnaaggcg aattctgcag atatccatca cactggcggc cgctcganac 240
tgcactctaaa agggcccat tgcacctata ntgagtccca ttacaattca ctggccgctc 300
ttttacaacg tccttgaact gggaaaaccc tggccgttac cccaacttna tcgcctttgc 360
agcacatccc cctttttccg ccagctnngn gttaatacca anaaggcccc ctawtawtga 420
cactatagaa tactcaagct atgcatcaag ctwrratacc gagcawcgga tccamataag 480
ataancagag accagcacia gtwtgtagcat rggabayata tacagcccat atacggagam 540
ayatatcagg atatwtwtat atatatatat ataaacagaa acatacatat wtatacagta 600
tatawgcama aaaaaatata ttatataaaa aaatatatac ragtatatam acacacacva 660
gtatatatat atacgtacga rcacgtacgc atwarcacac acacrvcacg gacacacaat 720
wtacrcgacg cacgcacatt tahacacaat tahtatacac mtaccaa 767

<210> 63
<211> 353
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)...(353)
<223> n = A,T,C or G

<400> 63
tawtgacact atagaatact caagctatgc atcaagctwr rataccgagc awcggatcca 60
mataagataa ncagagacca gcacaagtwg tagcatrgga bayatataca gcccatatac 120
ggagamayat atcaggatat wtwtatatat atatatataa acagaaacat acatatwtat 180
acagtatata wgcamaaaaa aatacattat ataaaaaaat atatacragt atataamacac 240
acacvagtat atatatatac gtacgarcac gtacgcatwa rcacacacac rvcacggaca 300
cacaatwtac rcgacgcacg cacatttaha cacaattaht atacacmtac caa 353

<210> 64
<211> 609
<212> DNA
<213> Drosophila melanogaster

<400> 64
aatttttagc aatttcttat ttggtttttc ggtactttct ctagctgctt ttacttgatc 60
gcacatatat atatatatat atattctata catatacata ttcatatgaa tatatctttt 120
atcatcttta agaggagatt ttcagtgtct gtgtgggtgt gtgtgtttgt gtatgcttgt 180
atgtgtccgg ttgtcctata gccatttgaa ccactaagaa tttgtagccg gggaagttgc 240
tatcaaatag agttgtctaa caacggctct ggctcgggtt gaaggaattt ttggaggtcg 300
aggggagcca acgacacaac gcaagctgcc ccaaaaaaac gggctaagaa atcaggtttg 360
gctaataaaa tacaagctt gcaagggcaa gaagaagaag aagactgagc actttctttt 420
cggctgcac gcttacaacc agttcatagt gcgcctctct ccgcgcttct catcgatggt 480
aggtaagccc ttgtttcaaa tgatgtgaat gggctctaatt aggagtttgt ctgtctgtgt 540
ctgtattgtg tctgcacaag ccagagaaaag agaggctggg gagaatggga gaaagtgggt 600
gatgggagg 609

<210> 65
<211> 554
<212> DNA
<213> Drosophila melanogaster

<400> 65
taaacaaaag aaaaacaaaa ttccttttga aaatgcaaca ttaacaaata gaaagaaaca 60
aaacagaaca aacacgtaaa gaaagaggcc actacaaaac tgaaaagaaa atgtgaaaaa 120
tacaaaattt cgtttagcca ttaagattgt taagaatcag agtgtagat gtagatgagc 180
aagtgaattt ttaggggctt tgctaccagt tttacctgct taatgaataa gggtaaaaca 240
ttcatatgat tggattggaa gaatatatcg ggaatgctaa aaattattgg agtataagtt 300
aaatacaact gcgatttatc tgtttaagtt ttaaagtcta tattaacgat gtataacttt 360
ggttcaatgt ttagtcata ggtttttaca ttttaactcaa tgtggggaga gagcttttaa 420
atagatcata cgaacctaca tattacattt atcgggttatt ataattgttt tggccctctc 480
atccaatata tacatatttt atggtcctag gttgtctttt ttaagttttc cattttgtta 540
aagaaagttc gatt 554

<210> 66
<211> 647
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1) ... (647)
<223> n = A,T,C or G

<400> 66
tggactgata tgcaaaaaag catttcacca cggcacctgc gcatataatg gtggatagcc 60
tgtggaacgt ctttatctta tcgtgtaagg tggacacgac acgaacacta atcagagaat 120
agagcagttc taactcacaa tattgataaa caaagtaagg gccagccgag agatacacgc 180
gcatttattg gcagcaaaaca gaagccaaaa ctacggacat gtccgaatcg ggaatcaaaa 240
agttgagcca ggagcggact cgcgaaatgg tggctagtca ggaggacgag gaactggagt 300
ccattgcaga gtctcgggtt gtggacagct tggactacga ttataccgag gaagaggagg 360
atgccgacca aaataccagt gaagaaatca gcactatgac actaggcact caaatcgcta 420
ccaaaaagca ttcgatcatc agcgacacca taagggacct tatgaactcg atcaacagca 480
ttcagacttt gggcaacgtt aatataagca actccacgaa cgtccatata ggcaatgtta 540
ccaatattaa tggaaatata caaatcatag ccgatggcct tactcaaaac cgaagagatc 600
ggcggcatgt ttcaccaccg agagataacg cttccaaaac tccgacn 647

<210> 67
<211> 600
<212> DNA
<213> *Drosophila melanogaster*

<400> 67
gttttcaaac gctcagcggg gaaaatgtaa cggacgaacg cggctggcaa aactcacaga 60
cgggtacaaga gaaccagaat aaaaaaggac tccacaagaa acggcaactc gacaaaatct 120
atacaaaagt gtctggtctg actgtgtgtg tgcttctgag tgaatgcttg tgtatgtgtg 180
tataaattag tttggttgtg tgagttgtta gagtcaaaga actaaaataa gactttcaga 240
tctagcaaat atgtcccata gttccccgag acgcgtatcc actgctgtag ccacttaaca 300
aacaatgccc aaagttaagg cgcacggaat ctctaataat cgaaaccaat aaaatgagcc 360
ccgttgcttg cagcaccaac actaacatcg gtcacatcga gcaggttgca ggcaatcaaa 420
ggacaaatat agctgggata agatcaatcc aaattggaac aaccacaatc acaacgatat 480
tgaaccagcg atgagatgga gcgtccgttg ggatgacgaa ctcagaaact cagtaaggga 540
gctgcaactg atactgaaac tgaaacagaa accacagcgg cactcggaat ttagaggcga 600

<210> 68
<211> 598
<212> DNA
<213> *Drosophila melanogaster*

<400> 68
ccgccgagcg cctgctgcag catcccttcg tccagtgcga gatgtccttg cgggtggcca 60
aggagctgct gcagaagtac cagagtccca acccgagtt ctactactat ctcgatggcg 120
atgaggagtc tgtggcagga gtgccacaac gcattgccag caaatgacg tcacgcacca 180
atggcgtgcc agcgcaaaat cacacactaa aaacaggcat gacgacgaac tccacgtgga 240
atgagcgatc ttctagtccc gaaacgttac ccagtgcacat gagcctctta caatatattg 300

atgaggagct gaagctaaga gcgaccttgc cactgaacaa cgacacccaaa gatccactcg 360
gcgccgagtg cagctgctcc tcccacaatg gaggagccgc cggaggagga ggaggaggag 420
gagttggagt aggagcaggc ggagcagccg cgagcggcag cagcagcagc agcggaggcg 480
caacagtcgg caccactcat catcagcacc aacagcacca ccaggatcac caccatccga 540
atcatctgca tcagcatcag gcccatcaat tgccgcaaca gcagcagcag cagtcaca 598

<210> 69

<211> 420

<212> DNA

<213> Drosophila melanogaster

<400> 69

cagctggacg cgccgagcat catggacgcc ttctctggaca ccgagcgaca gagaatcgag 60
cgcgagcagc aattggcggc ggccgagcag gatgccgac gccggggcga gcagaaccgg 120
ctggaactgt accagatttt ggccgcctcc gagcctgac cgcaacctta ccagaggaag 180
ccggcggcac agccgaatgc tatggaccaa ctggaggcca ttgtggagca gcagcagcag 240
cgcgagctga aggagcagca ggagcaggcc aaggcaccgg tctacgtgcc tcccaggagg 300
gtgaacgagt cgagcgagct gtacttcccc gacaactttg ctcttttcaa gagagcaagg 360
ggtcgctcca ggggaggatt ggccgaggag gtggaggact aacagccgaa gcgctccttc 420

<210> 70

<211> 547

<212> DNA

<213> Drosophila melanogaster

<400> 70

aagcgtgcc aaaaatggcaa cgacagttcg ggttcggact cgaattccag cagtccgcgc 60
cagcaaggca gccctccagt gatctgtgag gatgcggctg cttgcgcagc tctctccggg 120
tacactgtgg atcagctctc ggatctggcc agtcaactgc cagtgtctgag taacaacaat 180
gctgtgggac ctaccggagt tagtgggtgg ggcatgcgg ataccaacaa tgtgaacacc 240
actccccgtc agtgcctctc tcgcttgggt ggccggtcagg aagtgtggg ccagtgccca 300
gtgccgcaca atcaggcaat ggttcctgcc aaatgtccag tagcgcagtc agactctggg 360
gattccttca gcgccaagag tggaaagtga ggggaatcgg ccaccactgc tcaactgtcca 420
ctacagatgc ccgtgggaca ggacttcatg ggccaatgtc cgtacgttaa caacgatgtg 480
aaggtatcct ttgcccgaagc tggaaagtgt ccagtgtgag gcggtgtggc aggagcatca 540
gcttcta 547

<210> 71

<211> 605

<212> DNA

<213> Drosophila melanogaster

<400> 71

atgaatcctc tggacaaaat acacgctcta gatgagatcg aaaaggagat aatcctgtgc 60
atgcaaagtg caggacaagc cttgcaggag ttgggcaagg aaaagtcttc ccagaaaaat 120
gcggagaccc agtcgcagca gtttctcaag agtctgtcca gcgtggaatc gaagctgtcc 180
gagcagatca actacttgac ccagggtgcc acgggtcagc cacacgaggg ttccggctat 240
gcatccgcca aagtgtctca aatggcttgg catcgcattc agcacgctag gtccagagtg 300
cgtgaacttg aggaaactaa ggccaaacac tcacatgcag ctcgtcagca gttgaagcgt 360
cacaggaaca tgccgcccgc cagcaacagc agcagcaaca acaacagcag cagcagcaac 420
aacaacagat gcaacaggcg gcacaacagc agcaacaaca aaccggagga ggaaatgccg 480
gcagcggaga tcatccctgg gcggagactc ctcaatgtca accaactaat cttgcgctat 540

ctttaagggt aagggtttta aatttttttag agtgcattcc gaaaaggcac attttgtcca 600
ccaat 605

<210> 72

<211> 630

<212> DNA

<213> *Drosophila melanogaster*

<400> 72

tagatccgac agcacagtca tgaaatcaga ccgagaagcc ggtcgtgccg attcgcgac 60
ctggcggggtc cattgctcgt cctcgtgcaa tcggacattg tattcctcct gattctcatt 120
tccatcggggt cgcgaccaga tgagcttcaa tccattgccataaagcacaat tctcgtggcc 180
acgctcatag ttgccatatg actccactat tagactgtac gacaggcggc caccgtacga 240
gaatagctgg ttgccagca cacttccct aagactccag tacttgggca gataggaggt 300
gtcgtgtag gtatacatat tccatagatat gtcgggaatt aagttctcgg tgcctggac 360
agctccgctt tcgtctgtaa ttaatggtgc gttaagaata aagtcaccg gtattagctg 420
gcggtacaga gctgccgaac gacactggct ggccaatcca gagcagtagc actctttgca 480
gccatcctga ttttgagcag acagtccata ggttccaggc cggcattggc cgcattgatc 540
accaatcacg tttctcttgc acaggcattc gttgcccgcg caatcataga tgcctctat 600
ttggcaatag gccgtgcatt ccaaagtgtg 630

<210> 73

<211> 638

<212> DNA

<213> *Drosophila melanogaster*

<400> 73

taaagaccgc cattgctgaa gtgatgcgcg atgatattgg ttatggaaag aatcggactg 60
tcgaggtgcg aacagaggat gaagtaaccg ccgatatggg ggcacattcg catgccgcg 120
tccatgctgc acatgtggcg cagcagccc atgtcgccc tgccgctgct atggagttgc 180
agcacagaag caaggaacca ccgccgccag agatcagtg gtcacgtaag acgccaacc 240
aatacgaggt ggtagacgcc agtggtcggc gtcagctgg cagtgggtcc gtttcggttt 300
ccgtttcggg cgccaatagc caccattcgc cgtatcatcc accggcgcg gcctatgcc 360
ccagcaccta tgccttccc tacagcggc tgaatgtgcc cggtgccgc ggtggattgc 420
caccgcacca gccgttgag ctagcccacc aggcgggtgg accacctgg gcctttgcca 480
aggccaaggc agcgcagtc ctgagtgaa tgggtgcagt cgggtgggtgg gtgtcattgg 540
tggtgggcgg cggctctgga ggaattgcag gcggaccagg tgggtgtctca gtcgggtgtc 600
gtgtaccggg cggcggcgga ccagggaagc gtggctgc 638

<210> 74

<211> 629

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc_feature

<222> (1)...(629)

<223> n = A,T,C or G

<400> 74

atcaatgctc tatgctacta tatcttgcc tttactataa ctgctcgag ctccgacgaa 60
caggaatgctc aggcctgcc atcagtgctc tcggtcatca tgatgggtgct ccagtactcc 120
aacaatccag cgcattcatt ccagctcctg gagtgcctga tgactcttaa gcacaatgct 180


```
gtcaaggaca tctctctgct tgtggcatac ggaaccgctg tttcccgac ctcggctgcc 240
aagctgctct tctactactg gccagccttt aacgccaatc tgttcgatcg caaagtccta 300
ctctccaaac taaccaatga cctagtgtccc ttcacctgcc aacgggagca ctgtccgaac 360
tccgggaatg cggaggcagc aaagggtgtgc tacgaccaca gcattagcat cgcatacgcg 420
cccgaattgtc caccgccccct ttacctgtgc atcgagtgcg ccaacgagat tcatcgggag 480
cacggaagcc tggagtctcg cgacattctg catcccatgc agcaggatc gatgggtgtgc 540
gaaaacaaga actgtcgctc caacgagaag tccgncttct tcatctgctt ttccacggag 600
tgtgccagct tcaatggcca ccatccgat 629
```

<210> 75

<211> 588

<212> DNA

<213> *Drosophila melanogaster*

<400> 75

```
agagagacaa cgacacgaca cgacataagt gggggtgggg gatagcgaac gagcccatcc 60
agcaacaaac ttcgcgaacg gcggcgacga cgcgcaaac tcgactgaat tccaattcga 120
attcgggcac gctcagaagt accgttggag tgcagcgacg ccggcgatgg gtaaacaata 180
ataggaatgg ctaaagacgt gcggagccct tgcgtctctc cagccccctg ttccgaccct 240
cccccgctg ccgctcccg cccaaagaca cactctaca aagagctcaa ctgtttacac 300
acacacacac acacacaggc acggacacgg aagtgtgtat gggtgagacg taattaaagc 360
ttgaaaccga gtttacaaca acaacgagcc cgccagtcgc caccaccac cccacgccgc 420
acacccccctg cgaagagccg aagtcgaagc aacagctaga agaagaggct taagagagag 480
agagagagag agagagagag agagcgggaa agagggaata ttggatactt cgcgcagaga 540
gaaacccccca acaacgagcg cagtttataa ataaaccttg ttcttttc 588
```

<210> 76

<211> 579

<212> DNA

<213> *Drosophila melanogaster*

<400> 76

```
tttggctaac catttctttt tatataaaag taagtaaact aagaactaat cctaggcctg 60
caggaagtct ccgagattgc cacatatatt gtcgatttcc gcacatcccg attgctccag 120
cgctgaaatg gcattggcga gggccacggg ttctttcagg gaatgggcct tcaaccatat 180
cctgccgttg actccacag cgatctcgta gggcagttcc cgggtaagag cggcgagaac 240
agggcagttt tcccgagca gcaccttcc cagattcagg ctgcacttga agaagaatcc 300
atcgatagac atgcaatcca cagctacgtg tggatcccga ttactctaac cttgtgcgaa 360
ggtcaatttt ccccaaaaaa tataggaaac gtaccaggga aaacaacaaa aaagggaaag 420
cgcacccccca cactgaaaac cggcgagcac ctggaaacgc atacatataa aaggagagta 480
aatatacaaa ttggtagcac ttccgcccgt gtcttttaca cattcaagcc atgtcttgga 540
ccgcttcagt tttcttgagg acttacacca ctagcatga 579
```

<210> 77

<211> 656

<212> DNA

<213> *Drosophila melanogaster*

<400> 77

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attatgttca gaaccttccg cccggagtca tcgaagtggg tgggtctccac atcaagaacc 60
agaccagccc tttgcccacg tatatacaag aattcacgga gaagttcttc gacggcattg 120
tgtacatcaa tatgccctat attgagtata tgaatgacca gggattgaag gctatgtata 180
cgatgattca cggaaatccc aatgttgctt tcatttgga tgtggagcaa ctagagcagt 240
```

```
tgccggccaa gaaaccaa atgttgacgc ttcattgtgaa tcaatcacta cagcaagaca 300
tcttggctat gcagtagctc aaggggttcc tgaatcatgg agatagtttc agtcttcagg 360
aggcaattca ctatggagtg cccgtcgtcg tgcttcccct taaactagag gaatttaata 420
atgcccacg tgtaattgaa cgcaacttgg gtgtgatgct tcaggtcaag gaatttaacc 480
aaagctccct gtcggatgcc cttacgcgaa tcctggatga ggagcgtttc ataagtgtc 540
tccaccaggc ccagttgaag ttccggaccc gtccgcaatc cgccctggaa ttggctgtat 600
ggcatgcgga acaacttatt gccgaaccac gactatttaa acattttgca caaact 656
```

<210> 78

<211> 549

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc_feature

<222> (1)...(549)

<223> n = A,T,C or G

<400> 78

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caacttcgat cggggcatat aaaaccagtg cttccaatcc gaaggcaaag cataaaagat 60
cagaacatca gtagccgaag attggctgag tagcacggac agcgggcaag tcctttgaaa 120
cgttggtagt ttgcaaccgg gtttgccaac ttcttttga gttcagtggg gctcaactat 180
cgacacaact atcctcggct ttgcgaaaac tcagtaaacc gacacattga cattcgaaaa 240
ttgggatgta aaactcaaga tgccgactac accacaggat cttgnccctt gcccaactctc 300
ttgctcaaag acctccgacc gatagcagtg aggccaaagg gcaggaggcc ggcgaaatcgg 360
acaacctgcc caacctgtgc actttgtcgc tggacgaact gaaacagctg gacagggatc 420
ccgagttctt cgaggacttc atcgaggaga tgtccgtggg gcagtacctg aacgaggagc 480
tcgattcaat gatggaccag gtggagatta tatcaagaga gaacgagtgc aagggcattc 540
atctggtag 549
```

<210> 79

<211> 486

<212> DNA

<213> Drosophila melanogaster

<400> 79

```
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